

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 September 2005 (22.09.2005)

PCT

(10) International Publication Number
WO 2005/087016 A1

(51) International Patent Classification⁷: **A23J 3/16**,
A61K 47/42, 9/16

(21) International Application Number:
PCT/NL2005/000192

(22) International Filing Date: 15 March 2005 (15.03.2005)

(25) Filing Language: Dutch

(26) Publication Language: English

(30) Priority Data:
1025723 15 March 2004 (15.03.2004) NL

(71) Applicant (for all designated States except US): **TECH-
NISCHE UNIVERSITEIT DELFT** [NL/NL]; Ju-
lianalaan 134, NL-2628 BL Delft (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GOLUBOVIC,**
Marijana [YU/NL]; Maria Van Reigersberchstraat 107,
NL-2611 GN Delft (NL). **OTTENS, Marcel** [NL/NL];
Bakhuis Roozenboomstraat 9, NL-2313 RC Leiden (NL).
WITKAMP, Geert, Jan [NL/NL]; Planciusdreef 21,
NL-2661 RJ Bergschenhoek (NL). **VAN DER WIELEN,**
Lucas, Antonius, Maria [NL/NL]; Margrietlaan 4,
NL-2665 AR Bleiswijk (NL).

(74) Agent: **KUPECZ, Arpád**; Octrooibureau Los en Stigter
B.V., Weteringschans 96, NL-1017 XS Amsterdam (NL).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF PREPARING A PROTEIN AGGREGATE AND A PHARMACEUTICAL COMPOSITION

(57) Abstract: The invention relates to a method of preparing a protein aggregate, wherein an aqueous protein solution is acidified with a pH that lies above the isoelectric point of the protein. In accordance with the invention, a first protein, which through acidifi-
cation is able to form a protein aggregate, is acidified in the presence of a second protein in the aqueous solution in order to form a
coaggregate comprising the first and second protein, wherein the second protein under identical temperature conditions and pH does
not form a protein aggregate in the absence of the first protein. Acidification preferably occurs with the aid of CO₂.



WO 2005/087016 A1